Appln. No.: 10/086,537 Docket No.: 66376-279-7 Amdt. Dated Dec. 1, 04 Reply to Office Action of Jul. 1, 04



By this Amendment claims 9 and 15 have been corrected and claims 24-31 have been canceled. Entry is requested.

In the outstanding Office Action claims 1-6, 8-11 and 15-18 have been rejected under 35 U.S.C. 102(b) as being anticipated by Saakarov et al.

The inventors assert that this rejection is incorrect. Saakaros et al. do <u>not</u> disclose the use of crystal elements having a crystal cut <u>with low</u> <u>effective electromechanical coupling factor between 0.05% and 3%.</u>

In contrast to the present invention, Saakarov et al. use a crystal element with a single rotated Y-cut at angles near $\Phi=0^{\circ}$, where the frequency constant is equal to 1376 kHz mm (see page 717). At $\Phi=0^{\circ}$ the electromechanical coupling factor equals 15% (strong coupling) as can be seen from Fig. 6.

As shown in detail on page 718, column 2, lines 10 to 14, Saakarov et al. state:

The analysis of the data received shows that the most optimum angle of cut for application over a wide temperature range from -60° to +85°C is considered the angle $\Phi = +1°30'$.

At Φ = +1°30′ the coupling factor is about 15% as can be seen from Fig. 6, which is quite different from the range of 0.05% to 3% in claim 1 of the present application.

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Further, the relationship between a <u>very low electromechanical</u> coupling factor and a <u>very high quality factor</u> (see page 5, paragraph 3 of the present application) is also not disclosed in the Saakharov et al.

The examiner's rejection based on Saakarov et al. should be withdrawn.

The examiner has rejected claims 1-8, 10-14 and 18 under 35 U.S.C. 102(b) as being anticipated by Reiter et al.

However, this rejection must be withdrawn. Note the attached Declaration Under 37 C.F.R. § 1.132.

The examiner has rejected claims 1-18 and 20-23 under 35 U.S.C. § 103(a) as being unpatentable over Saakarov et al. in view of Reiter et al.

However, Reiter et al. is not a usable reference – see attached Declaration Under 37 C.F.R. § 1.132.

Favorable reevaluation is requested.

Respectfully submitted,

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